AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Appln. No. 09/914,519

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (*Currently amended*) A ~~M~~method of transferring user data packets from a terminal to a mainframe of an S-CDMA point to multi-point system, comprising: ~~the steps of a~~ repeatedly ~~transmission of~~ transmitting a reference data packet coded with a pilot code for the duration of the connection between terminal and mainframe, wherein the reference data packet contains previously known information, and ~~the~~ sequentially sending ~~of~~ user data packets coded with at least one communication code, which in each case comprise the user information to be transferred.

2. (*Currently amended*) The ~~M~~method according to claim 1, ~~comprising the steps:~~ wherein each terminal is allocated a pilot code, at least for the duration of a connection, and each terminal is allocated at least one communication code at least for the duration of the transfer of a user data packet.

3. (*Currently amended*) The ~~M~~method according to claim 1, ~~comprising the~~ ~~step:~~ wherein the coding of the reference data packet with the pilot code takes place synchronously in time to the coding of the user data packets with the at least one communication code.

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4. (*Currently amended*) The ~~M~~method according to claim 3, ~~comprising the step:~~wherein from each reference data packet and user data packet or user data packets synchronously coded in time, a summation signal is formed which, after subsequent modulation, is transmitted to the mainframe.

5. (*Currently amended*) The ~~M~~method according to claim 1, ~~comprising the step:~~wherein at the times at which a user data packet is being transmitted, no reference data packet is transmitted.

6. (*Currently amended*) The ~~M~~method according to claim 1, wherein the pilot codes are CDMA codes and the communication codes are CDMA codes, wherein the pilot codes originate from a different CDMA code family from the communication codes and wherein no pilot code is identical to any communication code.

7. (*Currently amended*) The ~~M~~method according to claim 1, wherein the pilot codes are orthogonal to one another and the communication codes are orthogonal to one another.

8. (*Currently amended*) The ~~M~~method according to claim 1, wherein the pilot codes are not orthogonal to one another and the communication codes are orthogonal to one another.

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9. (*Currently amended*) A ~~M~~mainframe for an S-CDMA point to multi-point system for~~ transmitting user data~~

transferring user data packets from terminals to the mainframe, said mainframe ~~being suitable for~~~~minals to the man~~

repeatedly receiving a reference data packet coded with a pilot code and containing previously ~~known~~

known information on each connection to a terminal and ~~for~~ deriving ~~synchronisation~~

synchronization information from the signal of the reference data packet, ~~and~~wherein the

mainframe ~~is suitable for receiving~~receives user data packets, coded with at least one

communication code and comprising user information on each connection to a terminal.

10. (*Currently amended*) The ~~M~~mainframe according to claim 9, said the mainframe

being suitable for deriving from the signal of the reference data packet information on the signal

quality.

11. (*Currently amended*) The ~~M~~mainframe according to claim 9, comprising a control

unit to allocate pilot codes and communication codes to terminals, wherein for each connection

of a terminal to the mainframe a pilot code and at least one communication code at least for the

duration of the transfer of a user data packet is assigned by the control unit.

12. (*Currently amended*) The ~~M~~mainframe according to claim 9, comprising at least one

measuring unit to determine the signal-to-noise ratio for each connection to a terminal from the

received pilot codes.

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13. (*Currently amended*) The ~~M~~mainframe according to claim 9, comprising at least one ~~A mainframe acc~~ measuring and control unit ~~is provided~~ to measure the signal levels of the ~~received reference data~~ ~~to measure the s~~ packets and for telemetric regulation of the transmitting levels ~~of the terminals for the reference~~ ~~o ue transmuting~~ data packets and/or the user data packets as a function of the measured signal levels.

14. (*Currently amended*) The ~~M~~mainframe according to claim 9, said mainframe being constructed as a base station for an LMDS system.

15. (*Currently amended*) A ~~T~~transmitting device for an S-CDMA system, comprising a first coder for coding a reference data packet with a pilot code and a second coder for coding user data packets with at least one communication code are provided, wherein the reference data packet contains previously known information and the user data packets comprise the user information to be transferred and an adder is provided for adding the output signals of the coders.

16. (*Currently amended*) The transmitting device according to Claim 15, comprising a modulator for HF modulation of the output signals of the adder.

17. (*New*) The mainframe according to claim 9, repeatedly receiving only one reference data packet coded with a pilot code on each connection to a terminal.

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18. (*New*) The transmitting device according to claim 15, wherein only one reference device according to data packet is coded by the first coder on each connection to a mainframe coded by the first coder on each connection.

19. (*New*) The method of claim 1, wherein the mainframe and the terminal are always synchronized during the entire duration of the connection.

20. (*New*) The mainframe of claim 9, wherein the mainframe and the terminal are always synchronized during an entire duration of the connection.

21. (*New*) The transmitting device of claim 15, wherein the transmitting device is always synchronized to a mainframe during an entire duration of a connection thereto.

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